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(54) Title: IMMOBILIZATION OF MOLECULES ON SURFACES VIA POLYMER BRUSHES

functional polymer brush

attachment of oligonucleotide probes

detection of analyt DNA via hybridization

polymer brush with oligonucleotide strands (actual sensor device)

(57) Abstract

The invention relates to polyfunctional polymer monolayers (polymer brushes) comprising a multitude of polymer chains attached to a surface, with each polymer chain comprising a multitude of units carrying at least on functional group which allows the interaction of the polymer chain with a sample molecule.

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Abstract

The invention relates to polyfunctional polymer monolayers (polymer brushes) comprising a multitude of polymer chains attached to a surface, with each polymer chain comprising a multitude of units carrying at least on functional group which allows the interaction of the polymer chain with a sample molecule.